

PTP-MEG2 (H-300): sc-67049

BACKGROUND

Protein tyrosine phosphatases (PTPs) and protein tyrosine kinases (PTKs) play a ubiquitous role in the regulation of tyrosine phosphorylation-mediated signaling pathways. Tyrosine-phosphorylated proteins can be dephosphorylated through the action of PTPs, which therefore are likely to play a regulatory role in the control of cellular growth and differentiation. PTP-MEG2 (also known as PTPN9) is a cytoplasmic nonreceptor protein involved in the transfer of hydrophobic ligands and possibly in functions of the Golgi apparatus. It is involved in the development of erythroid cells and has an N-terminal Sec14p homology domain. The human gene for PTP-PEST, another cytoplasmic non-receptor protein, maps to chromosome 7q11.23 and encodes a 780 amino acid cytosolic nonreceptor protein. PTP-PEST is expressed abundantly in a wide variety of hemopoietic cell types, including B cells and T cells.

CHROMOSOMAL LOCATION

Genetic locus: PTPN9 (human) mapping to 15q24.2; Ptpn9 (mouse) mapping to 9 B.

SOURCE

PTP-MEG2 (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of PTP-MEG2 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

PTP-MEG2 (H-300) is recommended for detection of PTP-MEG2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

PTP-MEG2 (H-300) is also recommended for detection of PTP-MEG2 in additional species, including bovine and porcine.

Suitable for use as control antibody for PTP-MEG2 siRNA (h): sc-44670, PTP-MEG2 siRNA (m): sc-44671, PTP-MEG2 shRNA Plasmid (h): sc-44670-SH, PTP-MEG2 shRNA Plasmid (m): sc-44671-SH, PTP-MEG2 shRNA (h) Lentiviral Particles: sc-44670-V and PTP-MEG2 shRNA (m) Lentiviral Particles: sc-44671-V.

Molecular Weight (predicted) of PTP-MEG2: 68 kDa.

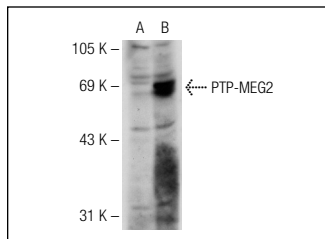
Molecular Weight (observed) of PTP-MEG2: 79 kDa.

Positive Controls: A549 cell lysate: sc-2413 or PTP-MEG2 (h): 293T Lysate: sc-176465.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



PTP-MEG2 (H-300): sc-67049. Western blot analysis of PTP-MEG2 expression in non-transfected: sc-117752 (A) and human PTP-MEG2 transfected: sc-176465 (B) 293T whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **PTP-MEG2 (D-5): sc-271052**, our highly recommended monoclonal alternative to PTP-MEG2 (H-300).